

Showline

SL ParBlazer 100 UV



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Document Number: **SL ParBlazer 100 UV User's Manual**

Version as of: 9th Mar, 2015 Rev1.0

SL ParBlazer 100 UV Installation & User's Manual
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IMPORTANT INFORMATION

Warnings and Notices

When using electrical equipment, basic safety precautions should always be followed including the following:



- a. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**
- b. Do not mount near gas or electric heaters.
- c. Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
- d. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- e. Do not use this equipment for other than intended use.
- f. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.



WARNING: You must have access to a mains circuit breaker or other power disconnect device before installing any wiring. BE sure that power is disconnected by removing fuses or turning the mains circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

WARNING: This equipment is intended for installation in accordance with the Nation Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

Additional Resources for DMX512

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522). USITT Contact Information:

USITT
315 South Crouse Avenue, Suite 200
Syracuse, NY 13210-1844
Phone: 1.800.938.7488 or 1.315.463.6463
www.usitt.org

Showline Limited Two-Year Warranty

Showline offers a two-year limited warranty of its luminaires against defects in materials or workmanship from the date of delivery. A copy of the Showline two-year limited warranty containing specific terms and conditions can be obtained by contacting your local Showline office.

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PREFACE

1. About this Manual

The document provides installation and operation instructions for the following products:

- SL ParBlazer 100 UV Luminaire

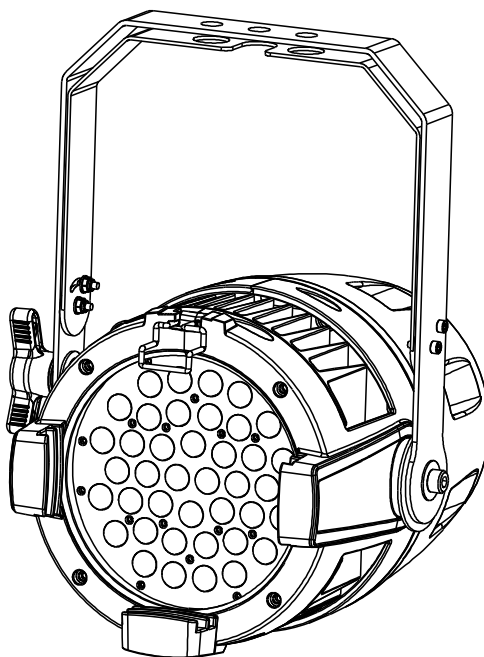
Please read all instructions before installing or using this product. *Retain this manual for future reference.* Additional product information and descriptions may be found on the product specification sheet.

Note: The SL ParBlazer 100 UV luminaire works from 100 to 240 VAC (auto-ranging).

2. Included Items

Each SL ParBlazer 100 UV luminaire includes the following items:

- SL ParBlazer 100 UV Luminaire
- Quick Start Guide



SL ParBlazer 100 UV Luminaire

SL ParBlazer 100 UV OVERVIEW

1. SL ParBlazer 100 UV COMPONENTS

Common Luminaire Components

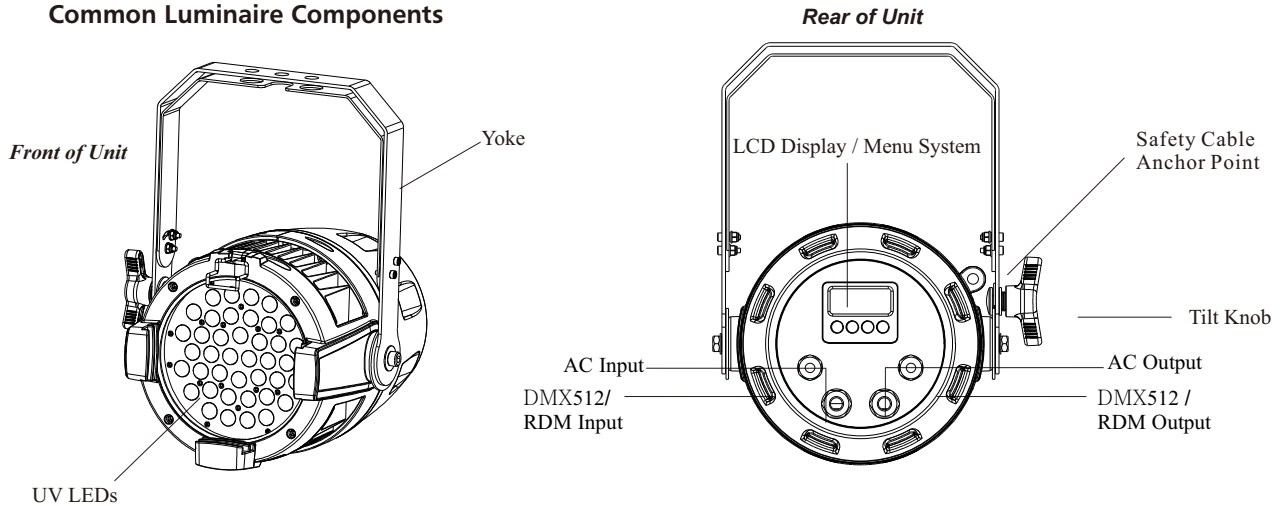


Figure 1: SL ParBlazer 100 UV Common Components

LCD Display / Menu System

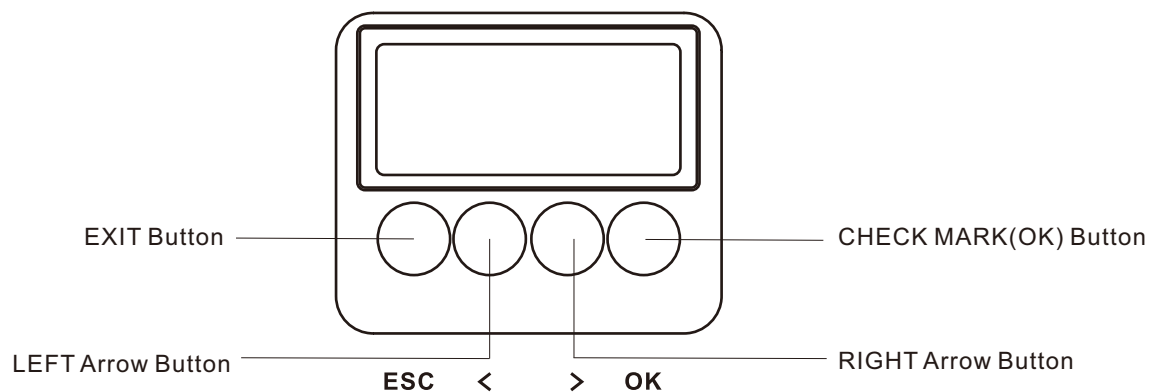


Figure 2: LCD Display & Menu System

Note: For Menu operation and programming details, refer to ["LCD Display and Menu System"](#) on page 9.

INSTALLATION AND SET UP

1. Power Requirements

The SL ParBlazer 100 UV Luminaire operates on AC input voltages from 100 to 240 VAC.



WARNING! The SL ParBlazer 100 UV luminaire does not have an ON/OFF switch. Always disconnect power input cable to completely remove power from the luminaire when not in use.

AC Power Operation

When connected to an AC source, the unit operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Each luminaire can draw up to 100 Watts.



WARNING! Maximum amount of fixtures that may be daisy-chained is (A) 10 units 100 ~ 120VAC or (B) 23 units 230 ~ 240VAC (15 Amps).

Table 1: SL ParBlazer 100 UV Voltage (VAC) vs. Current*

Voltage (AC)	Total Current (A)	Voltage (AC)	Total Current (A)
100	1.00	180	0.56
110	0.91	190	0.53
120	0.84	200	0.50
130	0.77	210	0.48
140	0.71	220	0.45
150	0.67	230	0.43
160	0.63	240	0.42
170	0.59		

Note: For wiring of AC input connector, refer to ["Connecting SL ParBlazer 100 UV to AC Power" on page 6](#).

2. Connecting Power

Units can be powered in one of two ways:

- Direct connection to an AC power source using an AC input cable. For wiring of the AC input connector, refer to ["Connecting SL ParBlazer 100 UV to AC Power" on page 6](#).
- Connection from the AC output of another SL ParBlazer 100 UV. When using this method, it is very important not to connect any other type of equipment device.



WARNING! Only connect other SL ParBlazer 100 UV luminaires to the AC Output (Thru) connector of an SL ParBlazer 100 UV luminaire.

Connecting SL ParBlazer 100 UV to AC Power

Table 2 describes how to connect power to your SL ParBlazer 100 UV. Field wiring of the SL ParBlazer 100 UV LED Luminaire is straightforward. A total of 3 wires/conductors need to be brought to the unit.

The following wiring scheme is required:

Table 2: SL ParBlazer 100 UVAC Input Connections

Wire Color	Purpose
Brown	Main/Line(100 to 240VAC)
Blue	Neutral
Green/Yellow	Ground (Earth)

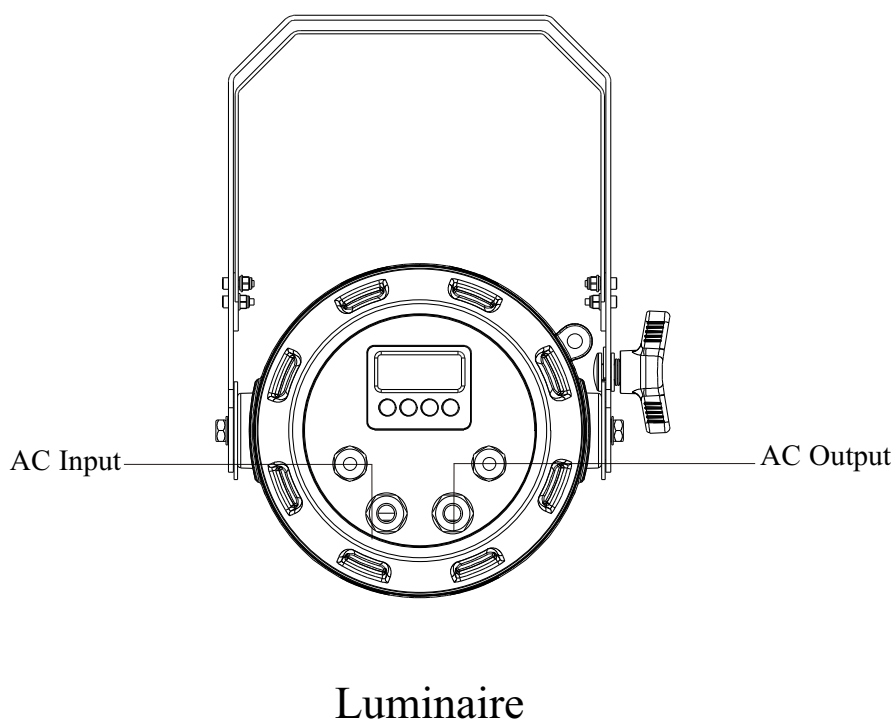


Figure 3: SL ParBlazer 100 UV AC Input & Output Connections

3. Connecting to the DMX512 Network

Basic DMX512 installation consists of connecting multiple SL ParBlazer 100 UVs together (up to 32 luminaires) in "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first SL ParBlazer 100 UV. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next SL ParBlazer 100 UV (or DMX512 device to be controlled).

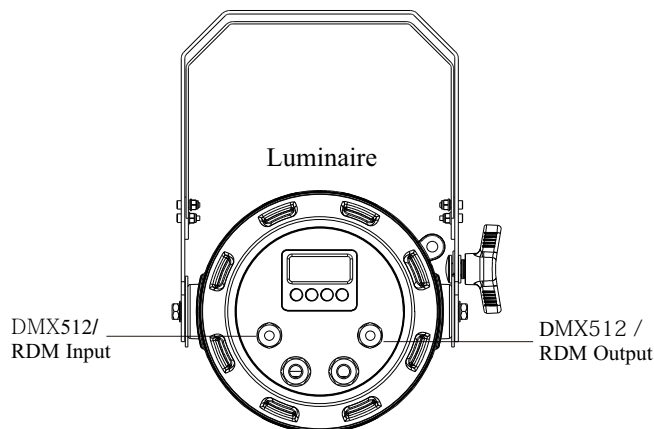
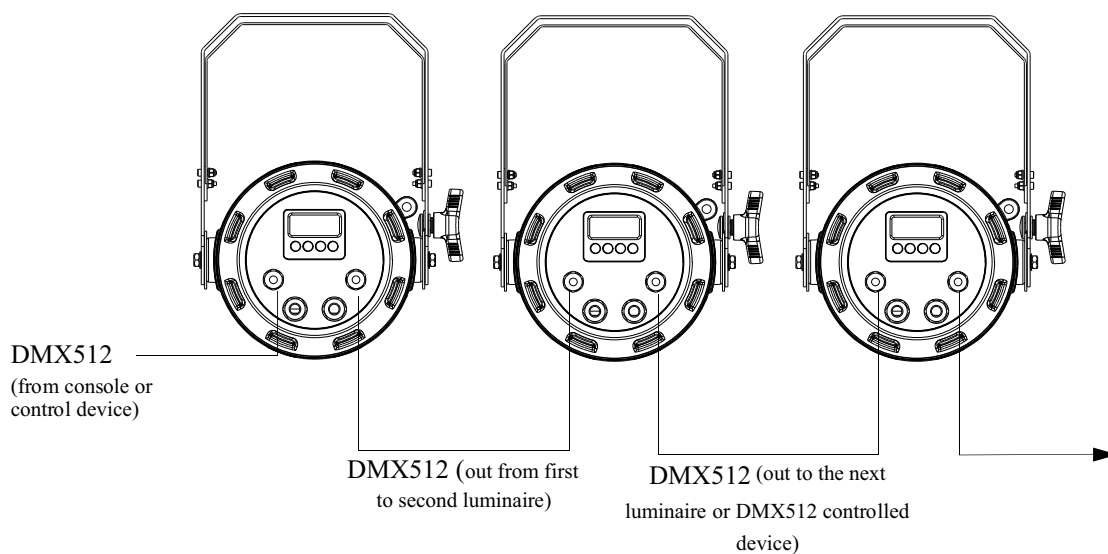


Figure 4: SL ParBlazer 100 UV DMX512 Input / Output Connections

Note: For more information on DMX512 networking and systems, refer to ["Additional Resources for DMX512" on page 1](#). For SL ParBlazer 100 UV DMX Mapping, refer to ["DMX CONTROL" on page 13](#).



DMX512 Conections		
DMX512 Signal	XLR Pin	Color
Common (Drain)	1	Black
DMX512-	2	White
DMX512+	3	Red

Note: Remaining pins on each connector are not used.

Figure 5: SL ParBlazer 100 UV- DMX512 Connections

4. Mounting Luminaire

Truss / Hanging Applications

The SL ParBlazer 100 UV is provided with the ability to hang via truss hooks, clamps, etc. (sold separately). Simply attach hook, clamp, etc. to the SL ParBlazer 100 UV yoke in the provided M12 holes. It is recommended (and may be required by local and national safety codes) to use and install a safety cable (sold separately) as illustrated in Figure 6. When hanging the fixture, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement. Refer to "[Luminaire Dimensions](#)" on page 36 for spacing (dimensional) requirements.

Note: Mounting hooks, clamps, safety cables, etc. are sold separately or by others. For mounting accessories available for this product, refer to "[Accessories](#)" on page 3.

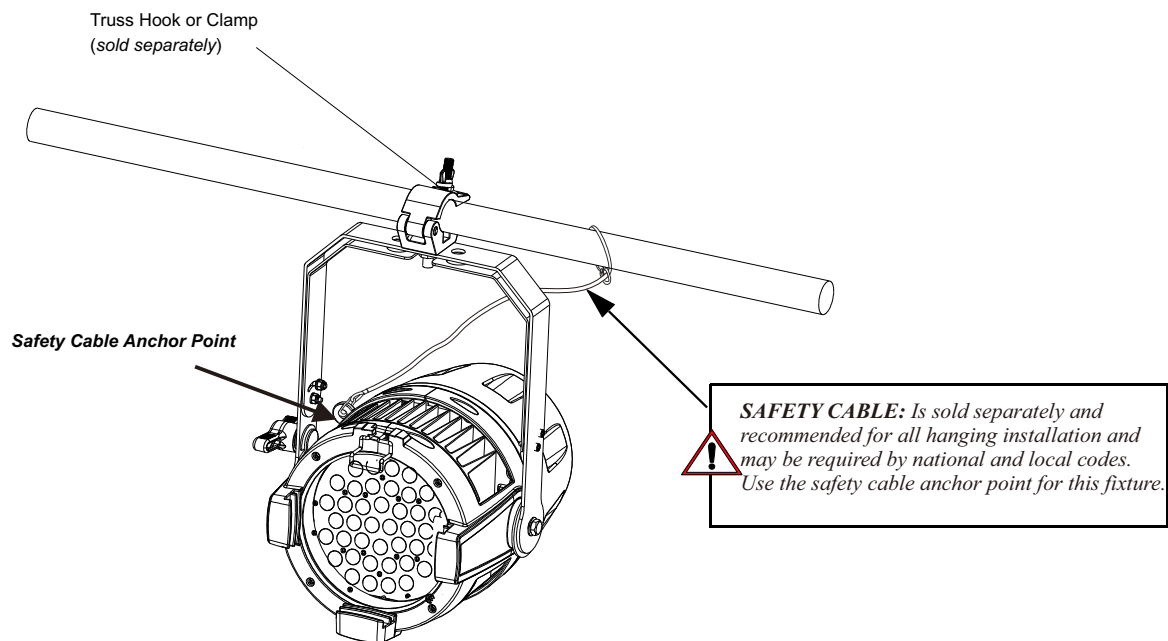


Figure 6: Mounting the Fixture - Hanging Applications

Floor Mounting

The SL ParBlazer 100 UV are designed to sit directly on its enclosure assembly (base) in a floor installation application. When used in this type of application, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement.

OPERATION AND PROGRAMMING

1. LCD Display and Menu System

The SL PARBLAZER Luminaire's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- DMX Address
- Manual Dimming
- DMX Personality
- Dimming Curve
- DMX Fail
- Default Setting
- Temperature
- Firmware
- RDM UID

Note: If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired.

Upon power up, the LCD will display the main screen showing menu. The User can use “ < ” and “ > ” to select then enter the desired function menu.

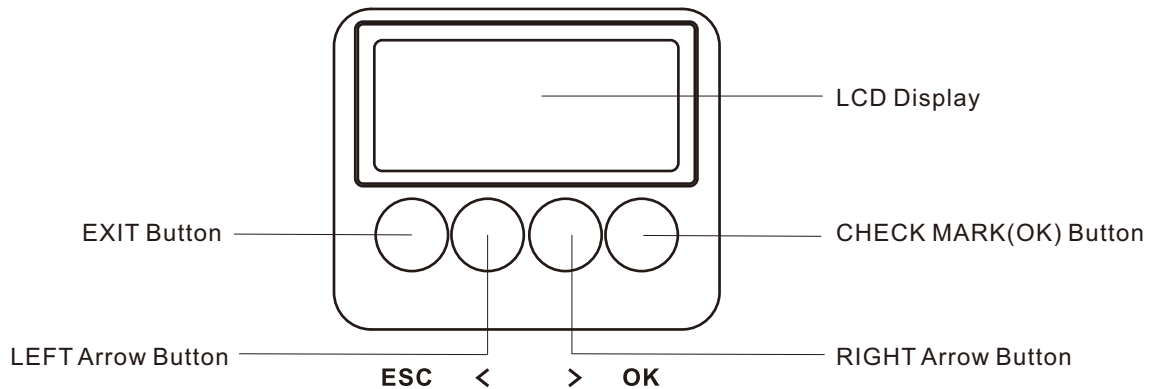


Figure 7: LCD Display and Menu System

2. LCD Display and Menu System Operation

The LCD Display Menu system consists of several categories. Use the Menu Buttons to access and make changes to the menu items. When the desired menu item is reached, press the desired Menu Button to display the menu options and to navigate and configure the menu options as required.

To navigate and access menu settings/selections:

- Step 1. Make sure unit is powered and turned on.
- Step 2. Press the desired button (as shown in **Figure 8**) to access menu categories.
- Step 3. Use LEFT | RIGHT arrow buttons to navigate through the various options and settings.
- Step 4. Make changes as desired.

Press the CHECK MARK (OK) button to accept changes.

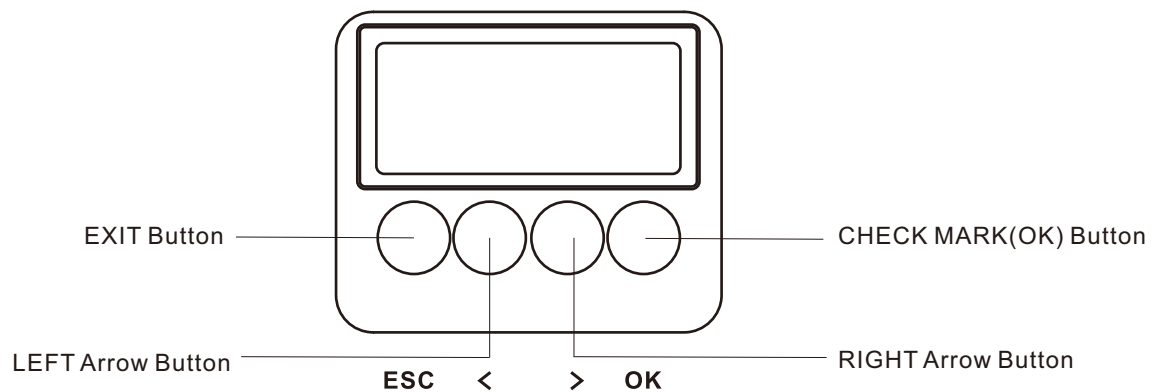


Figure 8: LCD Display and Menu System

3. SL ParBlazer 100 UV Menu Tree

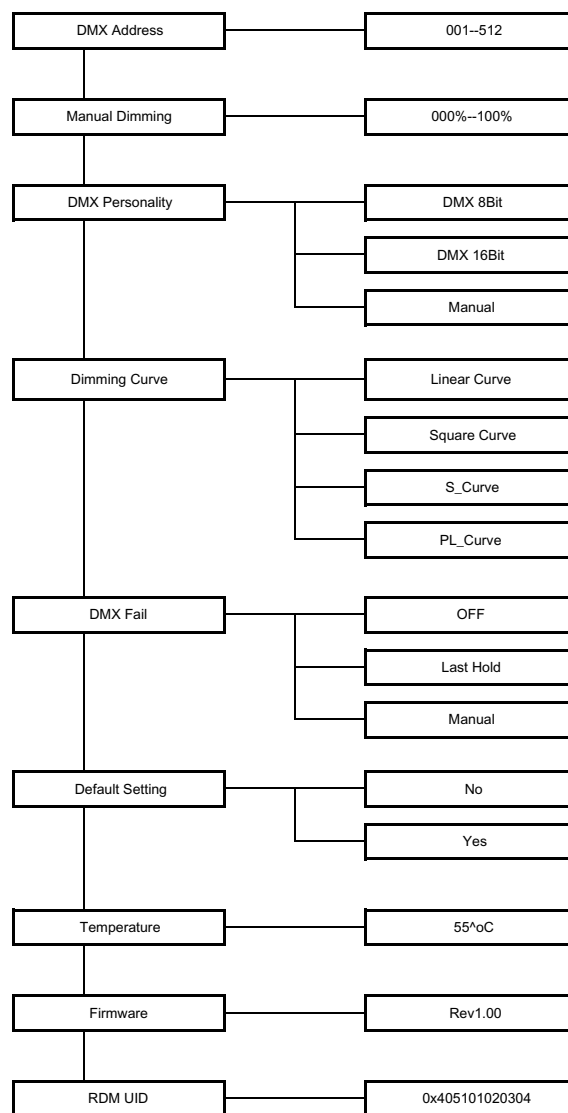


Figure 9: SL ParBlazer 100 UV Menu Tree

4. Master / Slave Operational Mode

The Master / Slave Operational Mode allows one SL ParBlazer 100 UV to act as the "Master" unit and all other connected units are controlled by this unit. When a unit is set to "Slave" mode, it will only listen to and follow any commands sent from a "Master" unit. Only one "Master" unit is allowed in this type of operation.

To setup a master / slave network:

- Step 1. Set the first device in the DMX512 chain to Master Mode through the unit's menu system.
- Step 2. Set all other connected units to Slave Mode.
- Step 3. The master unit can be controlled via DMX512, RDM or through standalone operation (self-contained network utilizing on-board effects). The slave units will mimic the master unit's operation in all cases.

Note: For more information on DMX512 networking and systems, refer to ["Additional Resources for DMX512" on page 1](#). For SL ParBlazer 100 UV DMX Mapping, refer to ["DMX CONTROL" on page 16](#).

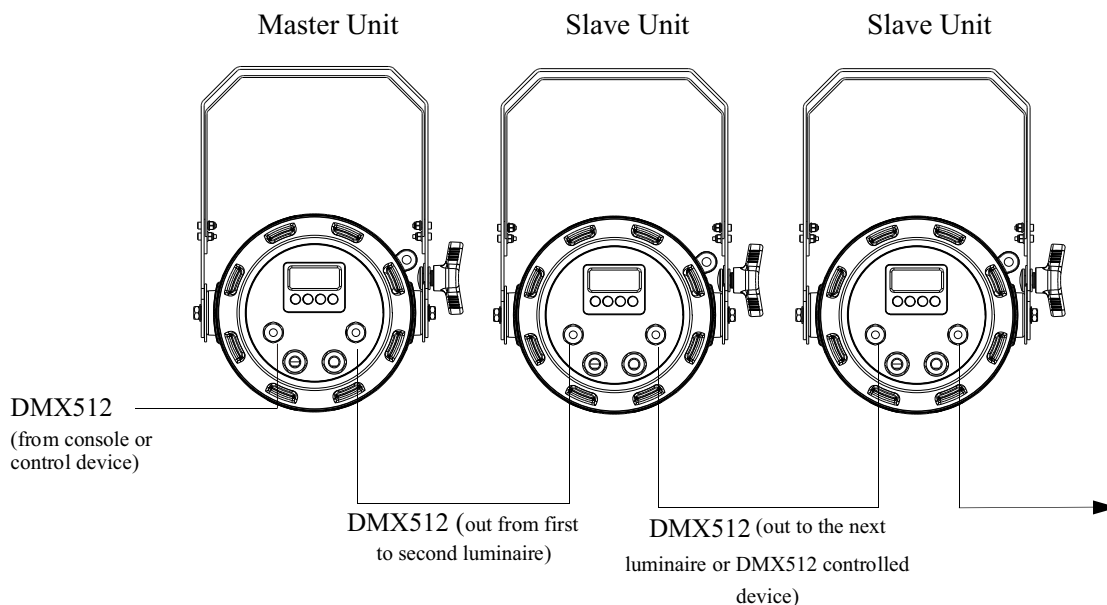
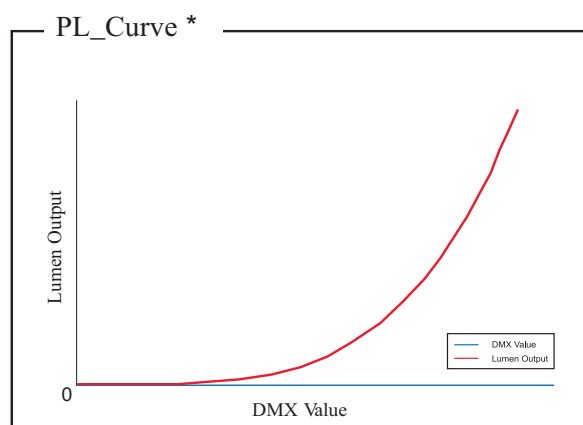
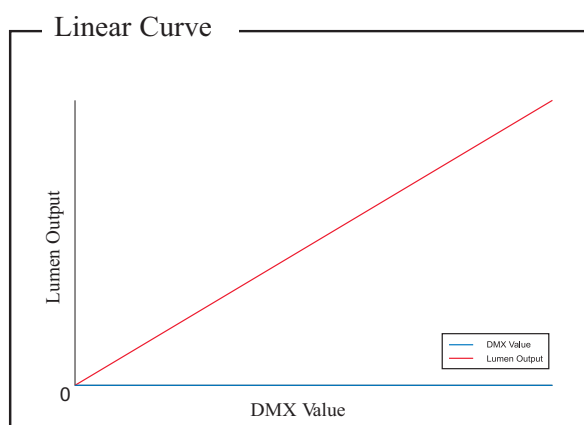


Figure 10: SL ParBlazer 100 UV- Master / Slave Configuration

5. Dimming Curve Selection

Through the menu, you are able to select one of four dimming curves:

- Linear Curve
- PL_Curve
- S_Curve
- Square Curve



*PL Curve follows the dimming curve of Philips Selecon PL series LED luminaries.

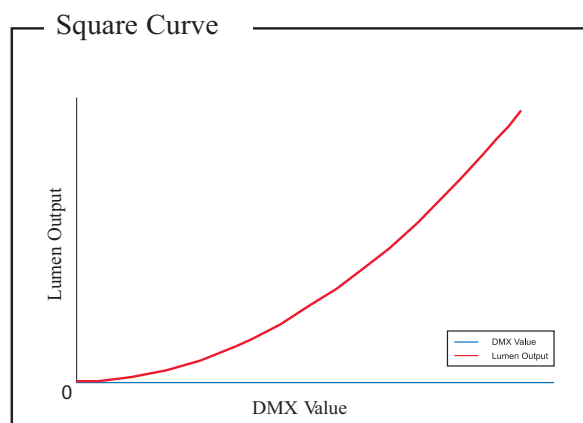
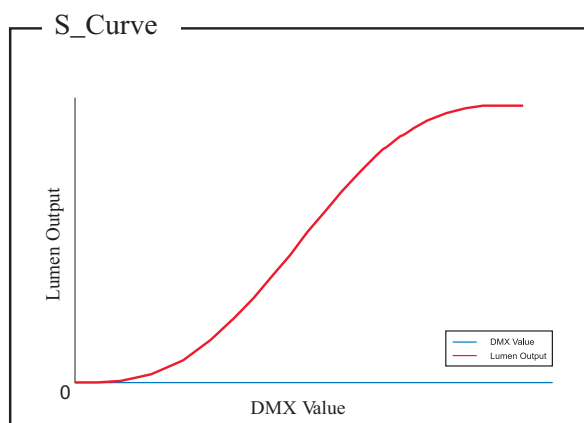


Figure 9: SL ParBlazer 100 UV Luminaire Dimmer Curves

DMX CONTROL

This section contains information for operating the luminaire using DMX control in 8-bit mode, 16-bit mode. For Menu options and detailed information, see "[LCD Display and Menu System](#)" on page 9.

Note: These tables assume a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

1. SL ParBlazer 100 UV DMX Mapping

8-Bit Mode

Table 3 provides DMX channel mapping of all DMX512 control values when the SL ParBlazer 100 UV LED Luminaire is in 8-bit DMX512 mode (as set by the luminaire's menu system).

Table 3: SL ParBlazer 100 UV DMX Channel Mapping (8 - Bit Mode)

DMX	Parameter	DMX Range	Range	Defaults	Description
1	LED Intensity	0-255	0-100%	0	LED Intensity

16-Bit Mode

Table 4 provides DMX channel mapping of all DMX512 control values when the SL ParBlazer 100 UV LED Luminaire is in 16-bit DMX512 mode (as set by the luminaire's menu system).

Table 4: SL ParBlazer 100 UV DMX Channel Mapping (16 - Bit Mode)

DMX	Parameter	DMX Range	Range	Defaults	Description
1	LED	0-255	0-100%	0	Intensity Coarse
2	LED	0-255	0-100%	0	Intensity Fine

1. SL ParBlazer 100 UV RDM Parameter IDs

The following tables outline and describe all the RDM parameters IDs associated with SL ParBlazer 100 UV LED Luminaires.

Table 5, “SL ParBlazer 100 UV RDM Product Parameters IDs”

Table 6, “SL ParBlazer 100 UV RDM UID”

Table 7, “SL ParBlazer 100 UV RDM Parameters IDs”

Table 8, “SL ParBlazer 100 UV RDM Manufacturer IDs” on page 38

Table 9, “SL ParBlazer 100 UV RDM Manufacturer Specific PIDs” on page 38

Table 5: SL ParBlazer 100 UV RDM Product Parameters IDs

Model ID	Manufacturer	Model Description	Product Category
0x1230	Philips Entertain. Lighting Asia	SL ParBlazer 100 UV	0x2030

Table 6: SL ParBlazer 100 UV RDM UID

UID					
MSB of ESTA 50H	LSB of ESTA 41H	MSB of Unique Seq	LSB of Unique Seq	MSB of Unique Seq	LSB of Unique Seq

Table 7: SL ParBlazer 100 UV RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
<i>Category - Network Management</i>					
		DISC_UNIQUE_BRANCH	0x0001		■
		DISC_MUTE	0x0002		■
		DISC_UN_MUTE	0x0003		■
■		PROXIED_DEVICES	0x0010		
■		PROXIED_DEVICES_COUNT	0x0011		
■	■	COMMS_STATUS	0x0015		
<i>Category - Status Collection</i>					
■		QUEUED_MESSAGE	0x0020		■
■		STATUS_MESSAGES	0x0030		■
■		STATUS_ID_DESCRIPTION	0x0031		■
	■	CLEAR_STATUS_ID	0x0032		■
■	■	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		
<i>Category - RDM Information</i>					
■		SUPPORTED_PARAMETERS	0x0050	Support required only if supporting Parameters beyond the minimum required set.	■
■		PARAMETER_DESCRIPTION	0x0051	Support required for Manufacturer-Specific PIDs exposed in SUPPORTED_PARAMETERS message.	■

Table 7: SL ParBlazer 100 UV RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
<i>Category - Product Information</i>					
■		DEVICE_INFO	0x0060		■
■		PRODUCT_DETAIL_ID_LIST	0x0070		
■		DEVICE_MODEL_DESCRIPTION	0x0080		■
■		MANUFACTURER_LABEL	0x0081		■
■	■	DEVICE_LABEL	0x0082		■
■	■	FACTORY_DEFAULTS	0x0090		■
■		LANGUAGE_CAPABILITIES	0x00A0		
■	■	LANGUAGE	0x00B0		
■		SOFTWARE_VERSION_LABEL	0x00C0		■
■		BOOT_SOFTWARE_VERSION_ID	0x00C1		
■		BOOT_SOFTWARE_VERSION_LABEL	0x00C2		
<i>Category - DMX512 Setup</i>					
■	■	DMX_PERSONALITY	0x00E0		■
■		DMX_PERSONALITY_DESCRIPTION	0x00E1		■
■	■	DMX_START_ADDRESS	0x00F0	Required if device uses a DMX Slot	■
■		SLOT_INFO	0x0120		■
■		SLOT_DESCRIPTION	0x0121		■
■		DEFAULT_SLOT_VALUE	0x0122		
<i>Category - Sensors 0x02xx</i>					
■		SENSOR_DEFINITION	0x0200		■
■	■	SENSOR_VALUE	0x0201		■
	■	RECORD_SENSORS	0x0202		
<i>Category - Dimmer Settings 0x03xx - FUTURE USE</i>					
<i>Category - Power / Lamp Settings 0x04xx</i>					
■	■	DEVICE_HOURS	0x0400		
■	■	LAMP_HOURS	0x0401		
■	■	LAMP_STRIKES	0x0402		
■	■	LAMP_STATE	0x0403		
■	■	LAMP_ON_MODE	0x0404		
■	■	DEVICE_POWER_CYCLES	0x0405		
<i>Category - Display Settings 0x05xx</i>					
■	■	DISPLAY_INVERT	0x0500		■
■	■	DISPLAY_LEVEL	0x0501		
<i>Category - Configuration 0x06xx</i>					
■	■	PAN_INVERT	0x0600		
■	■	TILT_INVERT	0x0601		
■	■	PAN_TILT_SWAP	0x0602		
■	■	REAL_TIME_CLOCK	0x0603		
<i>Category - Control 0x10xx</i>					
■	■	IDENTIFY_DEVICE	0x1000		■
	■	RESET_DEVICE	0x1001		

Table 7: SL ParBlazer 100 UV RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
■	■	POWER_STATE	0x1010		
■	■	PERFORM_SELFTEST	0x1020		
■		SELF_TEST_DESCRIPTION	0x1021		
	■	CAPTURE_PRESET	0x1030		
■	■	PRESET_PLAYBACK	0x1031		

Table 8: SL ParBlazer 100 UV RDM Parameter Status IDs

Manufacturer Specific messages are in the range of 0x8000 - 0xFFDF. Each Manufacturer-specific Status ID shall have a unique meaning, which shall be consistent across all products having a given Manufacturer ID. See Table B-2, ANSI E1.20-2010

Status ID Message	Value	Data Value 1	Data Value 2	Status ID Description
8100H		00H	00H	ALL OK

Table 8: SL ParBlazer 100 UV RDM Parameter Specific PIDs

Get Allowed	Set Allowed	RDM Parameter IDs	Type	Length	Unit	Prefix	Min	Max	Default	Description
<i>Category - Manufacturer Defined PIDs - Range is 0x80000-0xffdf(See ANSI E1.20-2010 Standard, Table A-3)</i>										
■	■	8A00H	U8	1	NONE	NONE	0	100	100	DIMMER
■	■	8AA1H	S8	1	DB	NONE	0	3	0	Dimming Curve
■	■	8A0CH	S8	1	DB	NONE	0	3	0	DMX FAIL MODE

CLEANING AND CARE



WARNING! All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center.

1. Special Cleaning and Care Instructions

Being a solid-state fixture, and unlike most fixtures, the SL ParBlazer 100 UV requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

The SL ParBlazer 100 UV special care when it comes to cleaning from lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol*
- A mild soap solution

Note: *Reagent grade isopropyl alcohol is good to use on the SL ParBlazer 100 UV plastic optics with anti-reflection coatings.

If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.



WARNING! Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the SL ParBlazer 100 UV. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

If you have any questions regarding the use or care of your SL ParBlazer 100 UV, please contact Showline technical support or your local Authorized Dealer.

2. Front Lens Cleaning

To clean the front lens:

- Step 1. Turn Off luminaire and allow to cool completely.
- Step 2. Apply a small amount of reagent grade isopropyl alcohol to lint-free lens tissue.
- Step 3. Wipe all debris, dirt, fingerprints, etc. from lens.
- Step 4. Using a second lint-free lens tissue, wipe off any alcohol residue.

3. Service and Maintenance

For all other service and maintenance issues, please contact your local Showline office or an Authorized Service Center.



WARNING! Disassembly (other than as described herein), alterations, unauthorized service, etc. will void the product warranty. Contact your local Showline office or an Authorized Service Center for technical support and service.

TECHNICAL SPECIFICATIONS

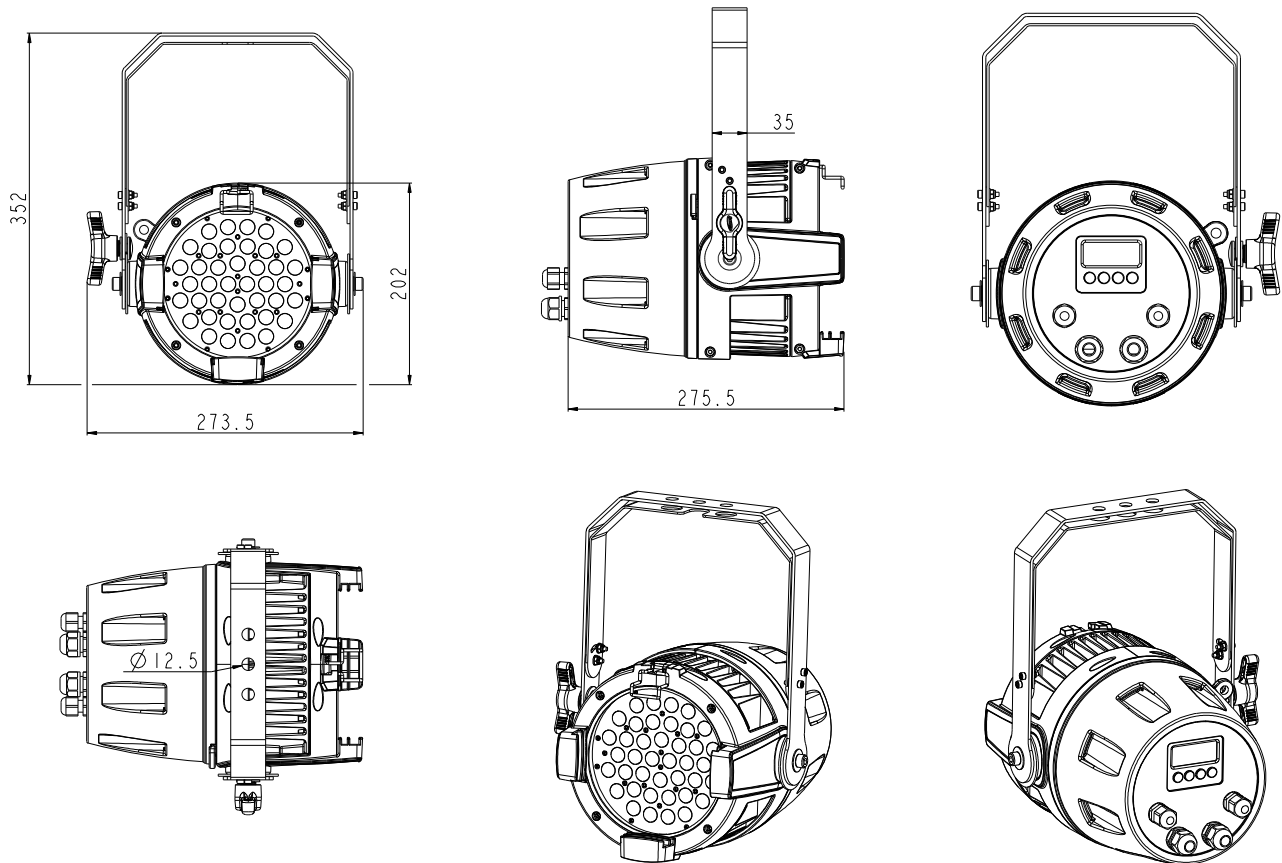
1. OPERATIONAL SPECIFICATIONS

Source:	40pcs High Power UV LED Array
Beam Angle:	20 Degrees
Light Output:	17,000 mW
Field Angle:	40 degrees
Input Voltage:	100V to 240V(+/- 10%, auto-ranging)
Power Consumption:	100 Watts(max).
Frequency:	50/60Hz
Control Protocols:	DMX512(1990) / DMX512A (RDM) / On-Board Menu
Ambient Temperature:	-20 to 40 Degrees C (-4 to 104 Degrees F)
Humidity:	5%-95% Non condensing
Cooling:	Silent Passive Cooling
Weight:	17.82 lbs(8.1 kg) - Luminaire only (no mount, AC input cable or accessories)
Housing:	Die Cast aluminium with Powder Coating
Compliance:	CE Marked (International models)
IP Rating:	IP65

Note: Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet for more details.



2. Luminaire Dimensions



NOTE

Showline

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